Franklin County Multi-Hazard Mitigation Plan

Hazard Risk Assessment

Each jurisdiction must come up with their own risk assessment.

Use this document to assist you and your jurisdiction in identifying potential hazards within your area. After creating a list of hazards, use the risk index equation to calculate a risk for each disaster within your community.

Once you have completed the assessment, please email a copy to Ciara Nixon at <u>ciaranixon@greateregypt.org</u>. If you have any question regarding this assessment, feel free to contact Ciara by telephone at 618-997-9351 ext. 29. Thank you.

Your Information:				
Name:				
Job Title:				
Date:				
Time allotted for this document:				
Check the jurisdiction you represent:				
□ City of Benton	Village of Freeman Spur			
City of Christopher	□ Village of Hanaford			
□ City of North City	□ Village of Macedonia			
City of Orient	Village of Royalton			
City of Sesser	□ Village of Thompsonville			
□ City of West Frankfort	□ Village of Valier			
□ City of Zeigler	□ Village of West City			
□ Village of Buckner	\Box Other:			
□ Village of Ewing				



Franklin County Multi-Hazard Mitigation Plan Hazard Identification

Let's start by thinking about any and all-natural hazards that have affected your community in the past. Do any historical natural hazard events come to mind? If so, start your list of possible natural hazards with experiences that you have been through or have heard of within your community. What happened previously is a great guide in planning and preparing for what may happen again. Even for events that took place 100 or more years ago, there is still the possibility that is could happen again.

Though this list may start with your own personal experiences or based off of stories you've heard, this should not be the only way you come up with a list of natural hazards. There are other natural hazards that may be possible in the future, that may not have happened yet. The nature of some threats may change overtime, whether that is due to weather pattern changes, or just the rarity of that threat happening. It's always good to be prepared for anything and everything, and remember:

It's not IF it happens, it's WHEN it happens.

Below are two different lists of hazards. The first list is of hazards that have historic data in the state of Illinois. The second list of hazards are less probable to happen in Illinois, but are still possible.

Check the box next to each hazard you feel your community should be prepared for.

List of Possible Hazards:

- 🗆 Dam Failure
- Earthquake
- Epidemic
- Extreme Heat
- □ Flooding
- □ Ground Failure (mine
- subsidence/Karst/sinkhole)
- □ Hazardous Materials Event
- □ Infestation
- □ Invasive Species

- □ Landslide
- □ Levee Failure
- □ Meteor Impact
- □ Terrorism
- □ Thunderstorm
- 🗌 Tornado
- □ Volcanic Eruption
- \Box Wildfire
- □ Winter storm/Ice storm

Are there any other hazards that your community would like to add to their list?



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Risk Assessment

Now, to rank the hazards from the list that you have created, we first need to understand the **Risk Index** equation.

RISK INDEX = PROBABILITY * SEVERITY

The **PROBABILITY** of an event is how likely the event will occur.

The **SEVERITY** of the event is the degree to which a hazard affects the functionality of society and the natural environment.

Use the table below to give each hazard a probability and severity ranking. Then, use the above equation to complete the hazard risk assessment by giving each hazard a risk index. Use the risk index of each hazard to then rank each hazard by most threatening/important to least threatening/importance.

Probability	Characteristics				
4 – Highly Likely	Event is probable within the next calendar year.				
	These events have occurred, on average, once every 1-2 years in the past.				
	Event is probable within the next 10 years.				
3 – Likely	Event has a 10-15% chance of occurring in any given year.				
	These events have occurred, on average, once every 3-10 years in the past.				
2 – Possible	Event is probable within the next 50 years.				
	Event has a 2-10% chance of occurring in any given year.				
	These events have occurred, on average, once every 10-50 years in the				
	past.				
1 – Unlikely	Event is probable within the next 200 years.				
	Event has a 0.5-2% chance of occurring in any given year.				
	These events have occurred, on average, once every 50-200 years in the				
	past.				

Severity	Characteristics				
	Multiple deaths.				
8 – Catastrophic	Complete shutdown of facilities for 30 or more days.				
	More than 50% of property is severely damaged.				
	Injuries and/or illnesses result in permanent disability.				
4 – Critical	Complete shutdown of critical facilities for at least 14 days.				
	More than 25% of property is severely damaged.				
	Injuries and/or illnesses do not result in permanent disability.				
2 – Limited	Complete shutdown of critical facilities for more than seven days.				
	More than 10% of property in severely damaged.				
1 – Negligible	Injuries and/or illnesses are treatable with first aid.				
	Minor quality of life lost.				
	Shutdown of critical facilities and services for 24 hours or less.				
	Less than 10% of property is severely damaged.				



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Risk Assessment

Jurisdiction Hazard Risk Assessment

Hazard	Probability (1-4)	Severity (1,2,4, or 8)	Risk Index (P*I)	Rank
	(1 4)	(1,2,4, 01 0)	(1 1)	

